#8544 Store at -20C

Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP[®] Rabbit mAb (HRP Conjugate)



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Applications: W	Reactivity: H M R Hm Mk Mi Dm Z B Dg Pg Sc	Sensitivity: Endogenous	MW (kDa): 44, 42	Source/Isotype: Rabbit IgG	UniProt ID: #P27361, #P28482	Entrez-Gene Id: 5595, 5594	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>			•		
Specificity/Sensitivity		Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP [®] Rabbit mAb (HRP Conjugate) detects endogenous levels of p44 and p42 MAP Kinase (Erk1 and Erk2) when dually phosphorylated at Thr202 and Tyr204 of Erk1 (Thr185 and Tyr187 of Erk2), and singly phosphorylated at Thr202. This antibody does not cross-react with the corresponding phosphorylated residues of either JNK/SAPK or p38 MAP kinases.					
Species predict based on 100% homology		Chicken, C. elegans					
Source / Purific	cation	Monoclonal antibody i corresponding to resid				ptide	
Description		This Cell Signaling Tech peroxidase (HRP) via it species cross-reactivity (D13.14.4E) XP [®] Rabbit	s amine groups. The area of the groups is a structure of the groups of t	e HRP conjugated anti	body is expected to ex	hibit the same	
Background		Mitogen-activated pro- kinases involved in ma death. The p44/42 MAI extracellular stimuli, in consider it an importai sequential three-part p (MAPKKK or MAP3K), a p44/42 MAP3Ks have b Tpl2/COT. MEK1 and M and p42 through phos respectively. Several do transcription factor Elk MAPK phosphatases, k PD98059.	ny cellular prograr PK (Erk1/2) signalin ncluding mitogens, nt target in the dia protein kinase casc MAP kinase kinase peen identified, incl IEK2 are the primar phorylation of activ ownstream targets (-1 (8,9). p44/42 are	ns, such as cell prolifer og pathway can be activ growth factors, and cy gnosis and treatment of ade is initiated, consist e (MAPKK or MAP2K), a luding members of the ry MAPKKs in this path vation loop residues Th of p44/42 have been in e negatively regulated l	ation, differentiation, r vated in response to a tokines (1-3), and rese of cancer (4). Upon stin ing of a MAP kinase ki nd a MAP kinase (MAP Raf family, as well as l way (5,6). MEK1 and M ur202/Tyr204 and Thr1 dentified, including p9 by a family of dual-spe	motility, and diverse range of arch investigators nulation, a nase kinase (K). Multiple Mos and EK2 activate p44 85/Tyr187, 0RSK (7) and the cificity (Thr/Tyr)	
Background Re	eferences	1. Roux, P.P. and Blenis 2. Baccarini, M. (2005) 3. Meloche, S. and Pou 4. Roberts, P.J. and Der 5. Rubinfeld, H. and Se 6. Murphy, L.O. and Ble 7. Dalby, K.N. et al. (199 8. Marais, R. et al. (199 9. Kortenjann, M. et al. 10. Owens, D.M. and K	FEBS Lett 579, 327 nysségur, J. (2007) C c, C.J. (2007) Oncoge eger, R. (2005) Mol L enis, J. (2006) Trenc 98) J Biol Chem 273 3) Cell 73, 381-93. . (1994) Mol Cell Bio	1-7. Drcogene 26, 3227-39. ene 26, 3291-310. Biotechnol 31, 151-74. Is Biochem Sci 31, 268- B, 1496-505. Di 14, 4815-24.			

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey Mi: Mink Dm: D. melanogaster Z: Zebrafish B: Bovine Dg: Dog Pg: Pig Sc: S. cerevisiae
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